

Form PTO-49

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
30-5004DIV2SERIAL NO.  
09/912,652LIST OF ART CITED BY APPLICANT  
(Use several sheets if necessary)APPLICANT  
Vladimir SegalFILING DATE  
July 24, 2001GROUP  
1742

## U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
HW	AA	3,849,212	11-1974	Thornburg			
HW	AB	5,766,380	06-1998	Lo et al.			
HW	AC	6,123,896	09-2000	Meeks, III et al.			
HW	AD	3,653,981	04-1972	Watanabe et al.			
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
HW	AM	03-082773	08.04.1991	Japan (abstract only)				
HW	AN	08-134606	28.05.1996	Japan (abstract only)				
	AO							
	AP							
	AQ							

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)

HW	AR		Material Evaluation Report, Ingot No. T891C, 03/25/98, 1 page.
	AS		
	AT		

EXAMINER

Harry J. Williams, III

DATE CONSIDERED

3/6/03

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Form PTO 449 <div style="border: 2px solid black; border-radius: 50%; padding: 10px; display: inline-block; text-align: center;"> <b>OLPE JCIS</b>  <b>PATENT &amp; TRADEMARK OFFICE</b>  <b>JAN 22 2003</b> </div>		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOG. NO. 30-5004DIV2		SERIAL NO. 09/912,652	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Vladimir Segal et al.		GROUP 1742	
				FILING DATE July 24, 2001			

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U.S. PATENT DOCUMENTS							
*Examiner Initial	AA	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
HW	AA	5,171,379	12/1992	Kumar et al.			
HW	AB	5,722,165	03/1998	Kobayashi et al.			
HW	AC	4,517,032	05/1985	Goto et al.			
HW	AD	5,772,795	06/1998	Lally et al.			
HW	AE	6,221,178	04/2001	Torizuka et al.			
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						

FOREIGN PATENT DOCUMENTS								
*Examiner Initial	AA	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
HW	AM	252,442	09.06.1960	Australia				
HW	AN	57-106525 A	12/1980	Japan				
	AO							
	AP							
	AQ							

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)			
HW	AR		Hughes et al., "Grain Subdivision and the Development of Local Orientations in Rolled Tantalum" Tantalum, The Minerals, Metals & Materials Society, 1996, pgs. 257-262. (Year is sufficiently early so that the month is not an issue.)
HW	AS		Arlt, Jr., "Sulfonation and Sulfonation to Thorium and Thorium Compounds" Kirk-Othmer Encyclopedia of chemical Technology vol. 22, pp. 541-564, (1993, Year is sufficiently early so that the month is not an issue).
HW	AT		Kirkbride et al., "The Effect of Yttrium on the Recrystallization and Grain Growth of Tantalum", J. Less-Common Metals, vol. 9, pp. 393-408, 1965. (Year is sufficiently early so that the month is not an issue.)

EXAMINER <u>Ang S. White</u>	DATE CONSIDERED <u>3/6/03</u>
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Form PTO 1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOC. NO. 30-5004DIV1		SERIAL NO. 09/912,476	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Vladimir Segal et al.		FILING DATE July 24, 2001	
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U.S. PATENT DOCUMENTS							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
AA							

FOREIGN PATENT DOCUMENTS							
Document Number	Date	Country	Class	Subclass	Translation		
					Yes	No	
AB							

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)			
AC	NW	National Research Corporation Press Release, pgs. 1-4, July 1964.	
AD	NW	National Research Corporation Data Sheet "SGS Tantalum", pgs. 1-7, no date.	
AD	HW	ASTM Standard Specification for Tantalum and Tantalum Alloy Plate, Sheet, and Strip, pgs. 558-561, 1992. (Year is sufficiently early so that the month is not an issue.)	
AE	NW	Kumar, et al. "Effect of Intermetallic Compounds of the Properties of Tantalum" Materials Research Society Symposium Proceedings, vol. 322, pgs. 413-422, 1994. (Year is sufficiently early so that the month is not an issue.)	
AF	HW	Kumar, et al. "Effect of Intermetallic Compounds of the Properties of Tantalum" Refractory Metals & Hard Materials, vol. 12, pgs. 35-40, 1994. (Year is sufficiently early so that the month is not an issue.)	
AG	HW	Klein et al., "Inhomogeneous Textures in Tantalum Sheets" Materials Science Forum, vol. 157-162, pgs. 1423. (1994). (Year is sufficiently early so that the month is not an issue.)	
AH	HW	Clark et al., "Influence of Transverse Rolling on the Microstructural and Texture Development in Pure Tantalum", Metallurgical Transactions, vol. 23A, pgs. 2183-2191, August 1992.	
AI	HW	Raabe, et al., "Texture and Microstructure of Rolled and Annealed Tantalum", Materials Science and Technology, Vol. 10, pgs. 299-305, April 1994.	
AJ	NW	Wright et al., "Texture Gradient Effects in Tantalum", International Conference on Textures of Materials, 7 pgs., September 1993.	
AK	HW	Wright et al., "Textural and Microstructural Gradient Effects on the Mechanical Behavior of a Tantalum Plate", Metallurgical Transactions A, 25A (1994), pgs. 1-17. (Year is sufficiently early so that the month is not an issue.)	
AL	HW	Clark et al., "Effect of Processing Variables on Texture and Texture Gradients in Tantalum", Metallurgical Transactions A, Vol. 22A, September 1991, pgs. 2039-2047.	
AM	HW	Kumar et al., "Corrosion Resistant Properties of Tantalum" Corrosion 95, Paper No. 253, 14 pages. (No date)	
AN			
AO	HW	V.M. Segal, "Materials Processing by Simple Shear", Materials Science and Engineering A, Volume 197, 1995, pgs. 157-164. (Year is sufficiently early so that the month is not an issue.)	
AP			

EXAMINER <i>Shirley S. White, III</i>	DATE CONSIDERED <i>3/6/03</i>
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